

NX-5700S/5800S

VHF/UHF MULTI-PROTOCOL DIGITAL & ANALOG MOBILE RADIOS

This adaptable mobile radio supports both NXDN® and DMR digital protocols as well as mixed digital/FM analog operation, enabling it to serve with distinction in a wide range of enterprise and operation-critical applications. Designed with flexibility in mind, it's packed with convenient features like Bluetooth® for hands-free operation and built-in GPS. This model offers greater freedom of installation, the radio's front panel can be used as a remote control head (this requires an optional upgrade). Additionally, for expansion capability a software license certification system facilitates extensive customization.



Features

- Multi-protocol digital radio: Designed to operate under NXDN® or DMR digital, and FM analog protocols
- Mixed Digital & FM Analog Operation allows intelligent migration in mixed sites and easy migration with digital radios in other sites
- Large, 2.55" (154 x 422 pixels) TFT Display for at-a-glance operational status
- Easy to follow GUI and Multi-line Text to convey information
- Remote Control Head (Option)
- Built-In GPS Receiver for effective fleet and incident management
- Bluetooth® Module Built-in for hands-free and IoT applications operation
- Renowned KENWOOD Audio Quality achieved with Active Noise Reduction (ANR) that utilizes built-in DSP with two microphones for suppression of ambient noise
- Built-in 56-bit DES Encryption
- Optional 256-bit AES Encryption
- microSD/microSDHC Up to 2GB/32GB Memory Card Slot for increased memory capacity for "Voice & Data"
- 50 W to 5 W (136-174 MHz) Models
- 45 W to 5 W (380-470, 450-520 MHz) Models
- Maximum of 1024 CH/Zone, 128 Zones
- DB-25 Accessory Connector
- AMBE+2™ Enhanced Vocoder
- 4 W Speaker Audio

Digital – NXDN® Mode

- | | |
|--|---------------------------------|
| NXDN Conventional | Remote Stun/Kill |
| NXDN Type-C & Gen2 Trunking (Optional) | Remote Check |
| 6.25 & 12.5 kHz Channels | Over-the-Air Alias (OAA) |
| Paging Call | Over-the-Air Programming (OTAP) |
| Emergency Call | Short & Long Data Messages |
| All Group Call | NXDN Digital Scrambler |
| Status Messaging | |

Digital – DMR Mode

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|------------------------------------|--------------------------|
| Two-slot TDMA in 12.5 kHz channels | Call Interruption |
| DMR Tier 2 Conventional | Dual-slot Direct Mode |
| DMR Tier 3 Trunking (Optional) | Spectrum Efficient |
| DMR Over-the-Air Programming | Optional ARC4 encryption |

FM Modes – General

- | | |
|--|---|
| Conventional & LTR Zones | MDC-1200: PTT ID ANI / Caller ID Display, |
| FleetSync®/II: PTT ID ANI / Caller ID | Emergency, Radio Check / Inhibit |
| Display, Selective Group Call, Emergency | QT / DQT & Two-Tone |
| Status / Text Messages | Built-in Voice Inversion Scrambler |



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Accessories

All accessories may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories.

KRK-14H
Control Head Interface Kit (Adapter for the Head)



KMC-65M
Microphone



KCT-46
Ignition Sense Cable



KRA-40G
GPS Active Antenna



KRK-15B
Control Head Remote Kit (Adapter for the RF Deck)



KMC-66M
Keypad Microphone



KLF-2
Line Filter



KMB-34
Mounting Case for KPS-15



KCT-71
Remote Control Cable (available in 3 lengths of 17ft (5.2m), 25ft (7.6m), 16ft (0.5m))



KES-5A
External Speaker (40 W max input, requires KAP-2)



KMB-10
Key Lock Adapter



KPS-15
DC Power Supply (23A max)



KCT-72
External Accessory Connection Cable for the KCH-19



KCT-23
DC Power Cable



KAP-2
Horn Alert/PA Relay Unit



KWD-AE30/AE31
Secure Cryptographic Module

KPG-180AP
OTAP Manager

Specifications

General	NX-5700S	NX-5800S
Frequency Range	136-174 MHz	Type 1 450-520 MHz Type 2 400-470 MHz
Max. Channels Per Radio		1,024
Max. # of P25 Trunked Group IDs		512
Number of Zones		128
Channel Spacing		
Analog	12.5/15/25*/30* kHz	12.5/25* kHz
Digital	6.25/12.5 kHz	6.25/12.5 kHz
Power Supply		13.6 V DC ±15%
Current Drain		
Standby		0.45 A
RX		2.3 A
TX		13 A
Operating Temperature		-22°F to +140°F (-30°C to +60°C)
Frequency Stability		± 0.5 ppm
Dimensions		(W x H x D) Projections Not Included 6.69 x 1.89 x 6.93 in. (170 x 48.0 x 176 mm.)
Weight Radio		3.53 lbs (1.6 kg)
FCC ID		
Type 1	K44471100	K44471200
Type 2		K44471201

*25/30 kHz in VHF/UHF Bands (except T-Band) are not included in the models sold in the USA or US territories. Analog measurements made per TIA603. Specifications are measured according to applicable standards. Specifications shown are typical and subject to change without notice, due to advancements in technology.

Receiver	NX-5700S	NX-5800S
Sensitivity		
NXDN® 6.25 kHz Digital (3% BER)		0.20 µV
NXDN® 12.5 kHz Digital (3% BER)		0.25 µV
DMR Digital (5% BER)		0.25 µV
DMR Digital (1% BER)		0.40 µV
P25 Digital (5% BER)		0.25 µV
P25 Digital (1% BER)		0.40 µV
Analog (12dB SINAD)		0.25 µV
Selectivity		
Analog @ 12.5kHz		71 dB
Analog @ 25kHz		81 dB
Intermodulation		80 dB
Spurious Rejection		85 dB
Audio Distortion		2%
Audio Output Power		4 W/4 Q (Remote Control Head: 3 W/4 Q)

Transmitter	NX-5700S	NX-5800S
RF Power Output	50 W to 5 W	45 W to 5 W
Spurious Emission	-73 dB	-75 dB
FM Hum & Noise		
Analog @ 12.5kHz		45 dB
Analog @ 25kHz		50 dB
Audio Distortion		2%
Emission Designator		16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 7K60FXE, 7K60FXD, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

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MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Low Pressure	5001/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	5011/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
Low Temperature	5021/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	5031/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	5051/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	5061/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	5071/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	5091/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	5101/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V	516.6/Procedure I, IV, V

International Protection Standard

Dust & Water Protection* IP54, IP55** * Applicable microphone must be connected to the radio, and all accessory connectors must be covered. ** IP54: RF Deck; IP55: Remote Control Head.

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